

## ABSTRACT OF THE DISCLOSURE

A swashplate centering and holddown mechanism (55) for an axial piston unit (11) comprising a cylinder barrel (29) disposed for rotation about an axis of rotation (A). A cam member (39) is tiltable about a transverse axis and has a swashplate (37). The swashplate (37) is perpendicular to the axis of rotation (A), in a neutral position, and has a displaced position (FIG. 4). The swashplate centering and holddown mechanism biases the cam member (39) axially toward a cradle surface (41) and pivotably toward the neutral position (FIG. 3). The mechanism (55) comprises a pair of arms (67,69), each of which defines a pivot location (71,73), at one axial end thereof, fixed relative to a pump housing (19) on one side of the axis of rotation (A), and a swashplate-engaging portion (95,97), at the opposite axial end thereof, engaging the swashplate, on the other side of said axis of rotation (A), when said swashplate is in neutral. A connector (79) is operably associated with the arms (67,69), whereby the arms are able to pivot about the pivot locations (71,73) in a generally scissors-type movement. A pair of springs (63,65) biases the swashplate-engaging portions of the arms toward the swashplate (37), whereby, in the absence of an input to tilt the cam member (39), the swashplate is in engagement with both of said swashplate-engaging portions (95,97) and is in the neutral position (FIG. 3).